

FIG. 1

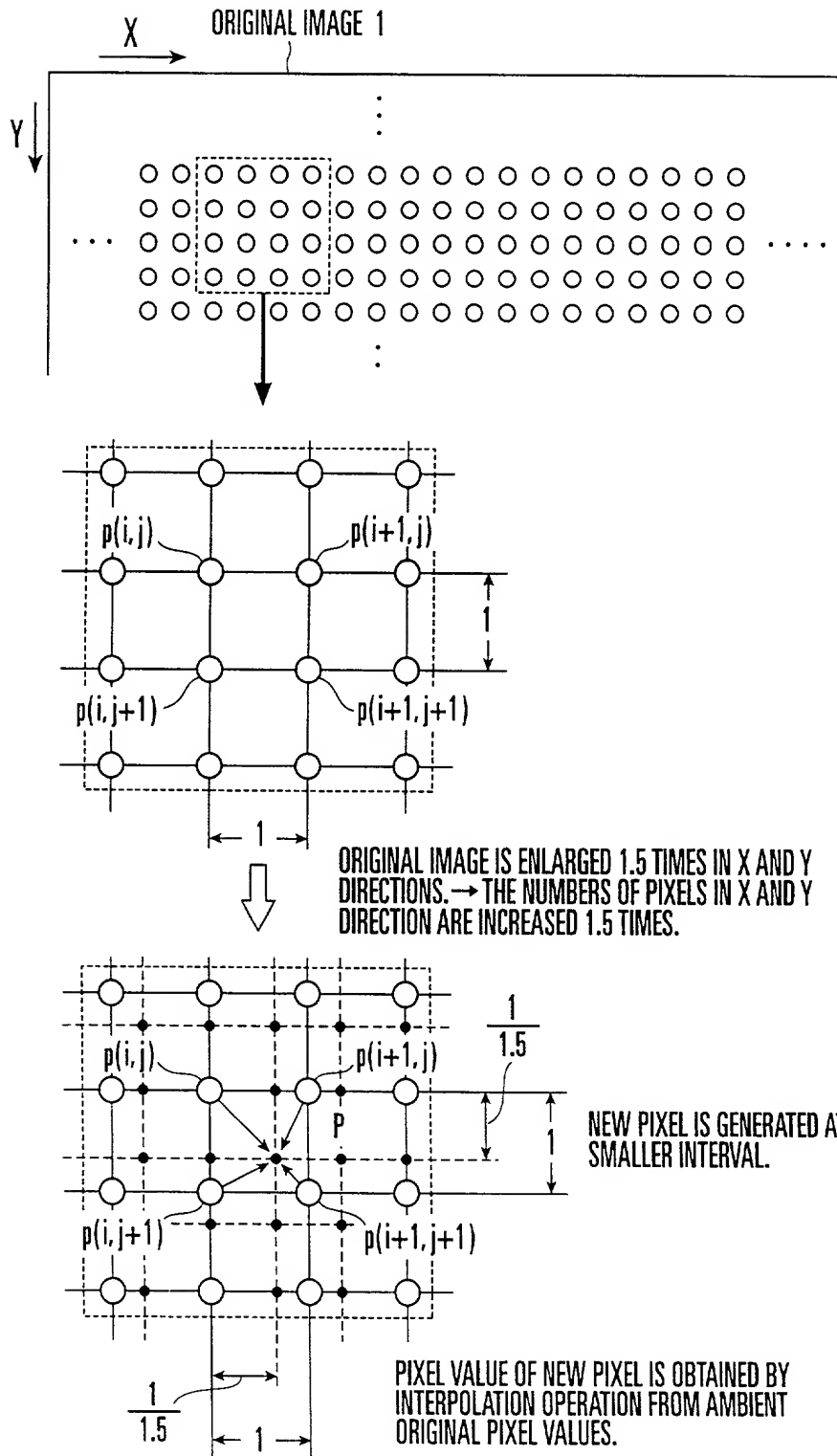


FIG. 2

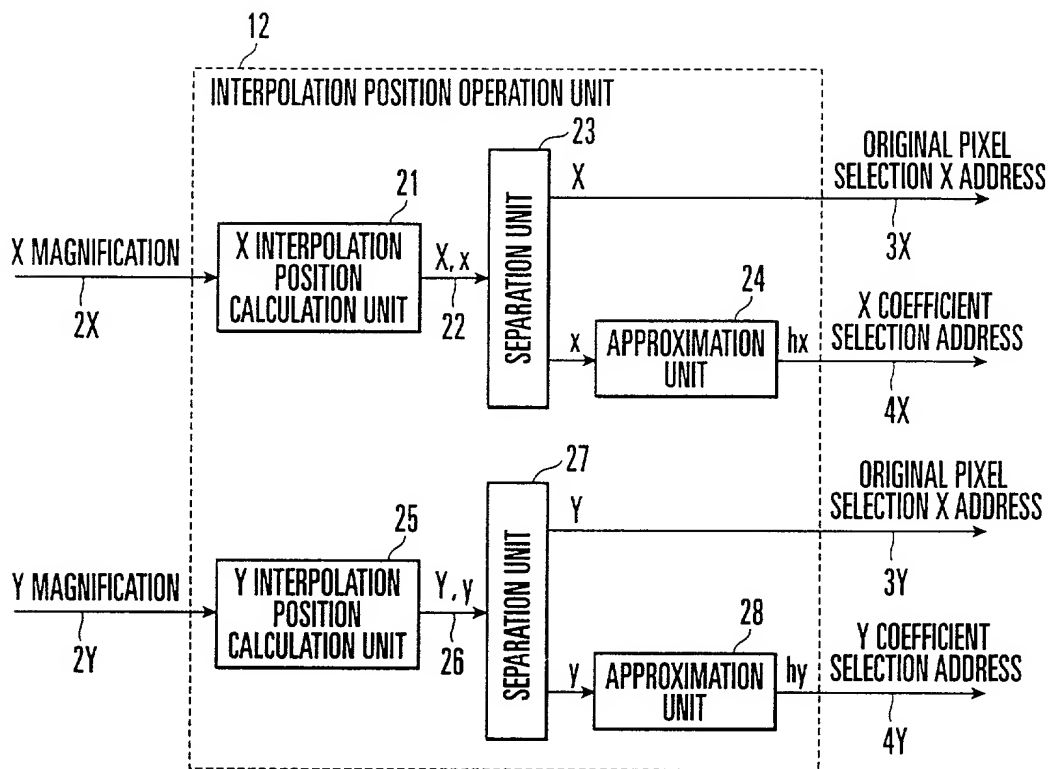


FIG. 3

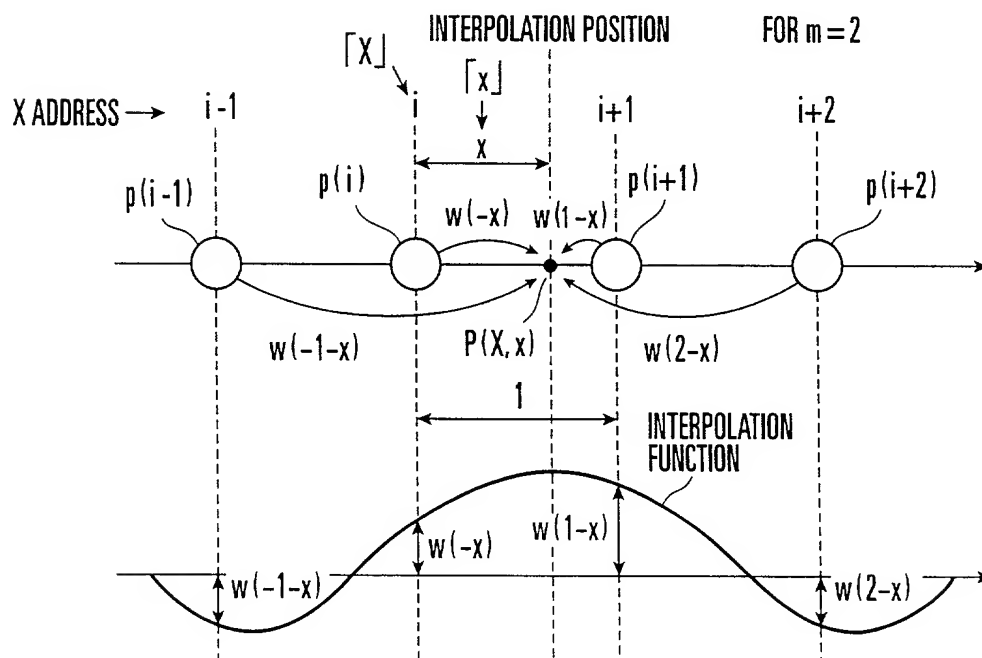


FIG. 4

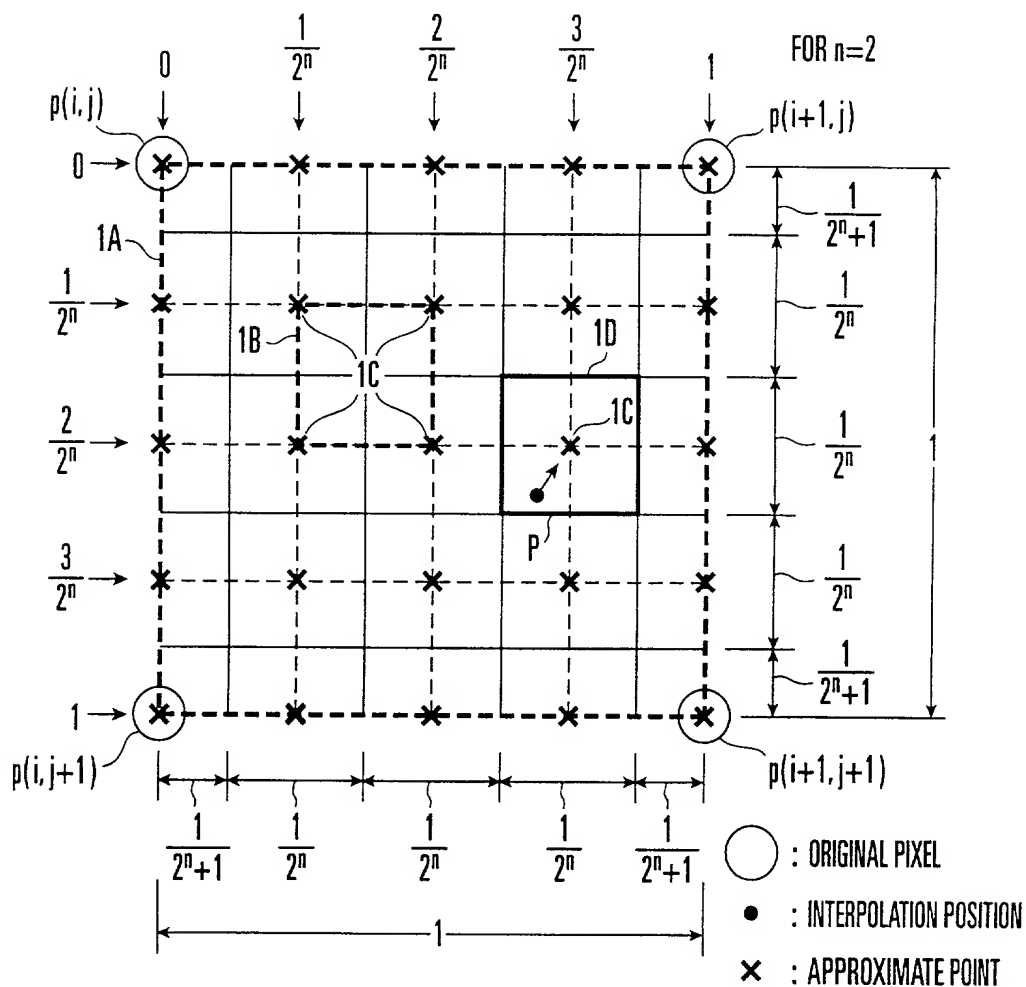


FIG. 5

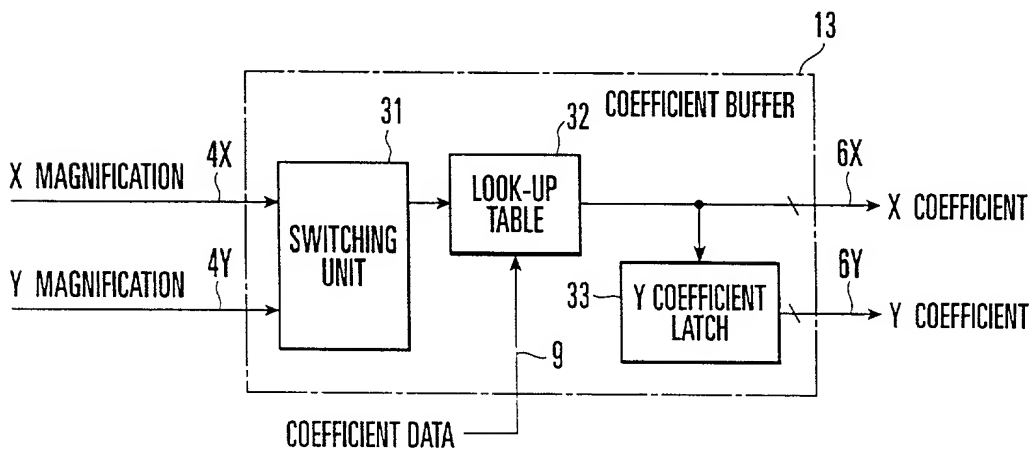


FIG. 6

DISTANCE x FROM P(i) TO INTERPOLATION POSITION	APPROXIMATE POINT	INTERPOLATION COEFFICIENT CORRESPONDING TO EACH ORIGINAL PIXEL POSITION
$0 \leq x < \frac{1}{2^{n+1}}$	0	$W(-1), W(0), W(1), W(2),$
$\frac{1}{2^{n+1}} \leq x < \frac{3}{2^{n+1}}$	$\frac{1}{2^n}$	$W(-1 - \frac{1}{2^n}), W(-\frac{1}{2^n}), W(1 - \frac{1}{2^n}), W(2 - \frac{1}{2^n})$
$\vdots$	$\vdots$	$\vdots$
$\frac{2h-1}{2^{n+1}} \leq x < \frac{2h+1}{2^{n+1}}$	$\frac{h}{2^n}$	$W(-1 - \frac{h}{2^n}), W(-\frac{h}{2^n}), W(1 - \frac{h}{2^n}), W(2 - \frac{h}{2^n})$
$\vdots$	$\vdots$	$\vdots$
$1 - \frac{1}{2^{n+1}} \leq x < 1$	1	$W(0), W(1), W(2), W(3),$

FIG. 7

FOR  $m=2$ ,  $n=2$ , and  $k=4$

DISTANCE $x$	INTERPOLATION COEFFICIENT $w$	NORMALIZED INTERPOLATION COEFFICIENT $W$	INTEGERIZED INTERPOLATION COEFFICIENT $W_i$	SET
-8/4	0	0	0	A
-7/4	-0.046875	-0.75	-1	B
-6/4	-0.125	-2	-2	C
-5/4	-0.140625	-2.25	-2	D
-4/4	0	0	0	A
-3/4	0.296875	4.75	5	B
-2/4	0.625	10	10	C
-1/4	0.890625	14.25	14	D
0	1	16	16	A
1/4	0.890625	14.25	14	B
2/4	0.625	10	10	C
3/4	0.296875	4.75	5	D
4/4	0	0	0	A
5/4	-0.140625	-2.25	-2	B
6/4	-0.125	-2	-2	C
7/4	-0.046875	-0.75	-1	D
8/4	0	0	0	A

FIG. 8

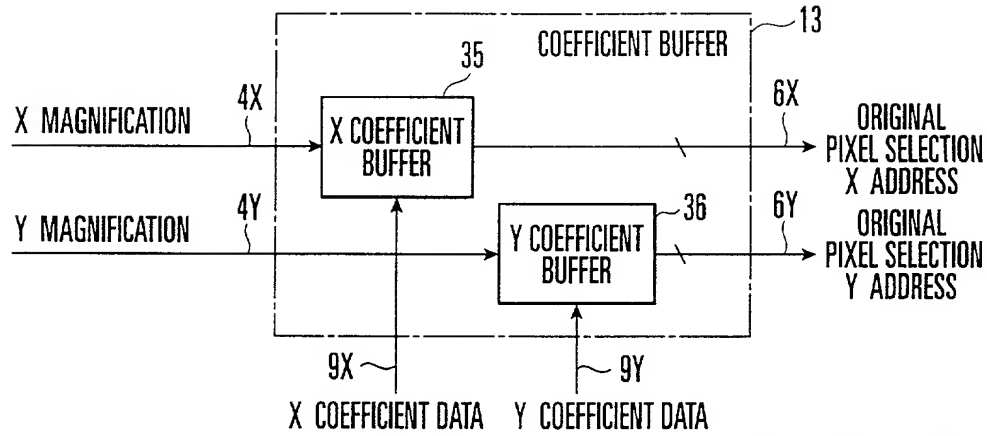


FIG. 9

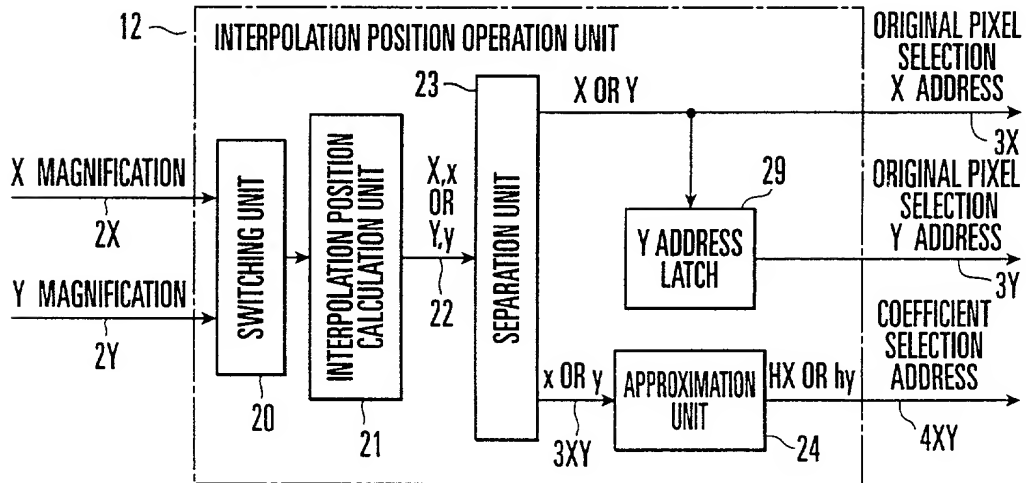


FIG. 10

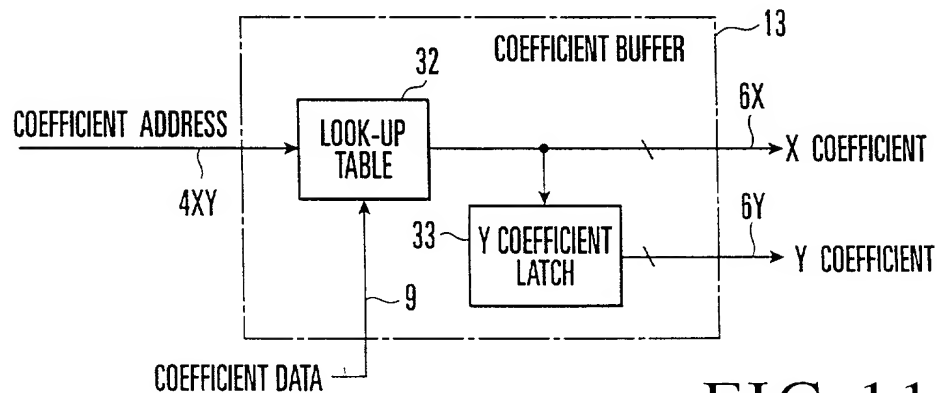


FIG. 11

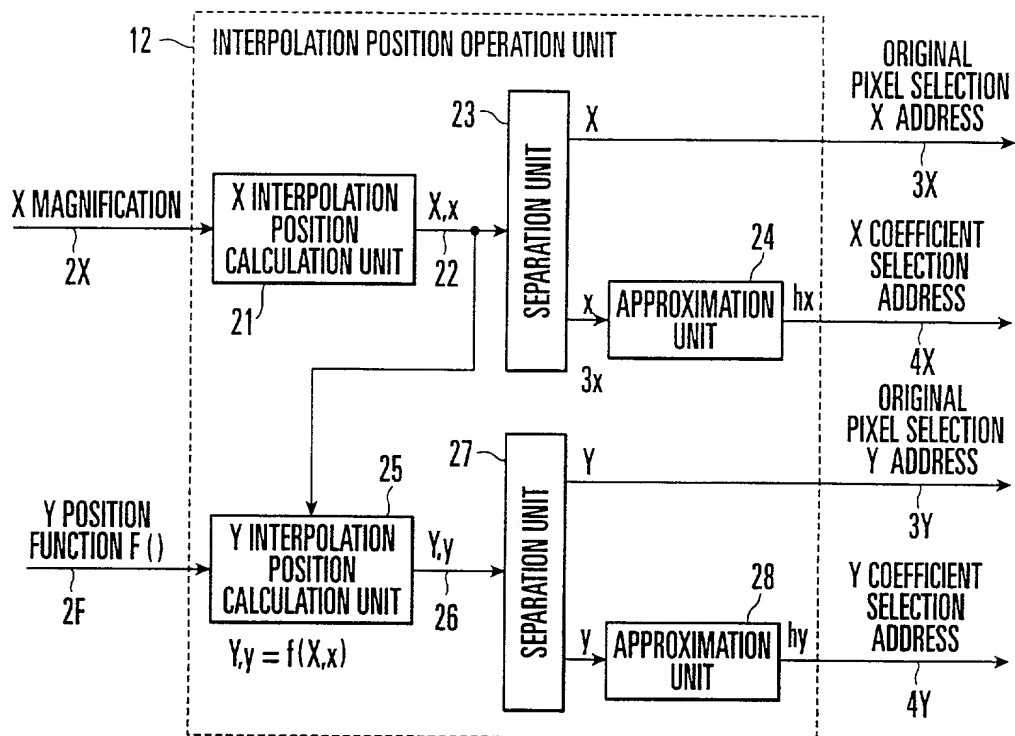


FIG. 12

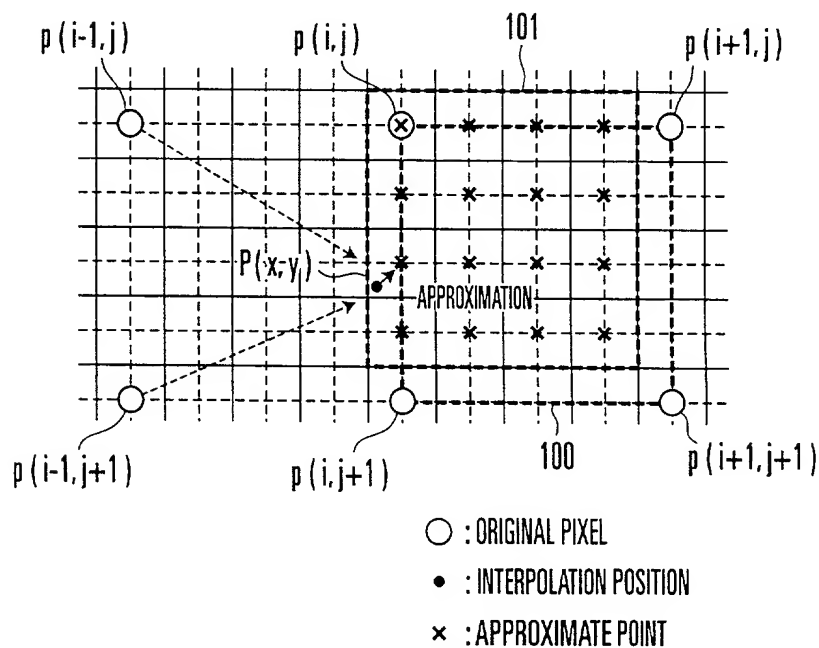


FIG. 13